SESSION 10

CRAFTY GRILL

TEAM MEMBERS:

HEMALATHA T

YUKTA KASINA

SRISHTI SINGH

EXECUTIVE SUMMARY:

Crafty Grill is a unique and expansive food truck service. Rather than open our own food service establishment, which has limited potential, we propose a venture that involves only delivering food made and provided by others. Certain restaurants and fast food locations do not offer the convenience of a delivery service. Our business aims to fill that portion of the market that has so far been neglected. We intend to pick up customers' orders from already established businesses and deliver it to them in a timely manner. We have also added the locations of the food truck at present in our website for the convenience of customers.

TEST PLAN:

SCOPE OF TESTING:

FUNCTIONAL REQUIREMENTS: Allowing the end user to interact with the system through a rich interface provide a much more enjoyable user experience, particularly for non-technical users which will account for the majority of the system's users. In addition, this isolation layer also protects the integrity of the database by

preventing users from taking any action outside those which the system is designed to handle. Because of this design pattern, it is essential to enumerate exactly which functions a user will be presented and these functions are outlined below, grouped by component.

The Web Ordering System:

Users of the web ordering system, namely truck customers, must be provided the following functionality:

- Create an account
- Manage their account
- Log in to the system
- Navigate the menu
- Select an item from the menu
- Customize options for a selected item
- Add an item to their current order
- Review their current order
- Remove an item/remove all items from their current order
- Provide delivery and payment details.
- Place an order
- Monitor truck location
- Receive confirmation in the form of an order number

As the goal of the system is to make the process of placing an order as simple as possible for the customer, the functionality provided through the web ordering system is restricted to that which most permit to accomplish the desired task. All of the functions outlined above, with the exceptions of account creation and management, will be used every time a customer places an order. By not including extraneous functions, I am moving towards my goal of simplifying the ordering process.

Menu Management System:

The menu management system will be available only to employees and will, as the name suggests, allows them to manage the menu that is displayed to users of the web ordering system. The functions afforded by the menu management system provide user with the ability to, using a graphical interface:

- Add new/update/delete vendor to/from the menu.
- Add a new/update/delete food category to/from the menu.
- Add a new/update/delete food item to/from the menu.
- Add a new/update/delete option for a given food item.
- Update price for a given food item.
- Update default options for a given food item.
- Update additional information (description, photo, etc.) for a given food item.

It is anticipated that the functionality provided by the component will be one of the first things noted by the restaurant user, as they will have to go through it to configure their menu, etc. before beginning to actually take orders. Once everything is configured, however, this component will likely be the least used, as menu updates generally do not occur with great frequency.

Order Retrieval System:

Of the three components, the order retrieval system is functionally the simplest. Like the menu management system, it is designed to be used only by restaurant employees, and provides the following functions.

- Retrieve new orders from the database.

- Display the orders in an easily readable, graphical way.
- Mark an order as having been processed and remove it from the list of active orders.

NON-FUNCTIONAL REQUIREMENTS:

Because the design patterns of the Food Truck are pretty much the standard for a web application, the non-functional requirements of the system are very straightforward. The application is cross-compelled to HTML and JavaScript, along with the PHP backend, all of which are supported by any reasonably well maintained server, although we would recommend Apache2, and particularly the free XAMPP distribution.

The server hardware can be any computer capable of running both the web and database servers and handling the expected traffic. For a restaurant that is not expecting to see much web traffic, or possibly doing only a limited test run, an average personal computer may be appropriate. Once the site starts generating more bits, though, it will likely to be necessary to upgrade to a dedicated host to ensure proper performance. The exact cut-offs will need to be determined through a more thorough stress testing of the system.

SYSTEM EVOLUTION:

As mentioned in the System Architecture, at the heart of the entire Food Truck Website is the database. In fact, the system could be completely operational using nothing but the database and an appropriate shell utility, assuming that all users are well-versed in PHP and enjoy using it to order food. While this would be bit extreme, it does illustrate the point that the one part of the system

which will stay relatively constant is the database. On the other hand, it is very probable that the other components will continue to evolve with time. For example, with the booming popularity of mobile applications, we would really like to make the web interface available as a phone application as well. Also it may make sense at some point to migrate the menu management and order retrieval system to web.

We are also certain that if this system goes into actual use, may requests will arise for additional features which we had not previously considered, but would be useful to have. For this reason, we feel as though the application can be constantly evolving, which we consider a very good thing.